



25775-czaza1.ST25
SEQUENCE LISTING

<110> Vogel et al., Tikva

<120> FIBRIN BINDING DOMAIN POLYPEPTIDES AND USES AND METHODS OF PRODUCING SAME

<130> 25775-CZ-AZ-A

<140> US 09/492,971

<141> 2000-01-27

<160> 38

<170> PatentIn version 3.1

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<212> DNA

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<213> Artificial Sequence

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36

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<210> 15

<211> 2327

<212> PRT

<213> Homo Sapiens

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Ser Lys Arg Gln Ala Gln Gln Met Val Gln Pro Gln Ser Pro Val Ala

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Val Ser Gln Ser Lys Pro Gly Cys Tyr Asp Asn Gly Lys His Tyr Gln	20	25	30
Ile Asn Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys	35	40	45
Thr Cys Tyr Gly Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu	50	55	60
Ala Glu Glu Thr Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val	65	70	75
Gly Asp Thr Tyr Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys Thr	85	90	95
Cys Ile Gly Ala Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn Arg	100	105	110
Cys His Glu Gly Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg Arg	115	120	125
Pro His Glu Thr Gly Gly Tyr Met Leu Glu Cys Val Cys Leu Gly Asn	130	135	140
Gly Lys Gly Glu Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe Asp	145	150	155
His Ala Ala Gly Thr Ser Tyr Val Val Gly Glu Thr Trp Glu Lys Pro	165	170	175
Tyr Gln Gly Trp Met Met Val Asp Cys Thr Cys Leu Gly Glu Gly Ser	180	185	190
Gly Arg Ile Thr Cys Thr Ser Arg Asn Arg Cys Asn Asp Gln Asp Thr	195	200	205
Arg Thr Ser Tyr Arg Ile Gly Asp Thr Trp Ser Lys Lys Asp Asn Arg	210	215	220
Gly Asn Leu Leu Gln Cys Ile Cys Thr Gly Asn Gly Arg Gly Glu Trp	225	230	235
			240

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Lys Cys Glu Arg His Thr Ser Val Gln Thr Thr Ser Ser Gly Ser Gly
 245 250 255

Pro Phe Thr Asp Val Arg Ala Ala Val Tyr Gln Pro Gln Pro His Pro
 260 265 270

Gln Pro Pro Pro Tyr Gly His Cys Val Thr Asp Ser Gly Val Val Tyr
 275 280 285

Ser Val Gly Met Gln Trp Leu Lys Thr Gln Gly Asn Lys Gln Met Leu
 290 295 300

Cys Thr Cys Leu Gly Asn Gly Val Ser Cys Gln Glu Thr Ala Val Thr
 305 310 315 320

Gln Thr Tyr Gly Gly Asn Leu Asn Gly Glu Pro Cys Val Leu Pro Phe
 325 330 335

Thr Tyr Asn Gly Arg Thr Phe Tyr Ser Cys Thr Thr Glu Gly Arg Gln
 340 345 350

Asp Gly His Leu Trp Cys Ser Thr Thr Ser Asn Tyr Glu Gln Asp Gln
 355 360 365

Lys Tyr Ser Phe Cys Thr Asp His Thr Val Leu Val Gln Thr Gln Gly
 370 375 380

Gly Asn Ser Asn Gly Ala Leu Cys His Phe Pro Phe Leu Tyr Asn Asn
 385 390 395 400

His Asn Tyr Thr Asp Cys Thr Ser Glu Gly Arg Arg Asp Asn Met Lys
 405 410 415

Trp Cys Gly Thr Thr Gln Asn Tyr Asp Ala Asp Gln Lys Phe Gly Phe
 420 425 430

Cys Pro Met Ala Ala His Glu Glu Ile Cys Thr Thr Asn Glu Gly Val
 435 440 445

Met Tyr Arg Ile Gly Asp Gln Trp Asp Lys Gln His Asp Met Gly His
 450 455 460

Met Met Arg Cys Thr Cys Val Gly Asn Gly Arg Gly Glu Trp Thr Cys
 465 470 475 480

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Ile Ala Tyr Ser Gln Leu Arg Asp Gln Cys Ile Val Asp Asp Ile Thr
 485 490 495

Tyr Asn Val Asn Asp Thr Phe His Lys Arg His Glu Glu Gly His Met
 500 505 510

Leu Asn Cys Thr Cys Phe Gly Gln Gly Arg Gly Arg Trp Lys Cys Asp
 515 520 525

Pro Val Asp Gln Cys Gln Asp Ser Glu Thr Gly Thr Phe Tyr Gln Ile
 530 535 540

Gly Asp Ser Trp Glu Lys Tyr Val His Gly Val Arg Tyr Gln Cys Tyr
 545 550 555 560

Cys Tyr Gly Arg Gly Ile Gly Glu Trp His Cys Gln Pro Leu Gln Thr
 565 570 575

Tyr Pro Ser Ser Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr Pro
 580 585 590

Ser Gln Pro Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser
 595 600 605

His Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Lys Asn Ser Val Gly
 610 615 620

Arg Trp Lys Glu Ala Thr Ile Pro Gly His Leu Asn Ser Tyr Thr Ile
 625 630 635 640

Lys Gly Leu Lys Pro Gly Val Val Tyr Glu Gly Gln Leu Ile Ser Ile
 645 650 655

Gln Gln Tyr Gly His Gln Glu Val Thr Arg Phe Asp Phe Thr Thr Thr
 660 665 670

Ser Thr Ser Thr Pro Val Thr Ser Asn Thr Val Thr Gly Glu Thr Thr
 675 680 685

Pro Phe Ser Pro Leu Val Ala Thr Ser Glu Ser Val Thr Glu Ile Thr
 690 695 700

Ala Ser Ser Phe Val Val Ser Trp Val Ser Ala Ser Asp Thr Val Ser
 705 710 715 720

Gly Phe Arg Val Glu Tyr Glu Leu Ser Glu Glu Gly Asp Glu Pro Gln
 725 730 735

Tyr Leu Asp Leu Pro Ser Thr Ala Thr Ser Val Asn Ile Pro Asp Leu
 740 745 750

Leu Pro Gly Arg Lys Tyr Ile Val Asn Val Tyr Gln Ile Ser Glu Asp
 755 760 765

Gly Glu Gln Ser Leu Ile Leu Ser Thr Ser Gln Thr Thr Ala Pro Asp
 770 775 780

Ala Pro Pro Asp Pro Thr Val Asp Gln Val Asp Asp Thr Ser Ile Val
 785 790 795 800

Val Arg Trp Ser Arg Pro Gln Ala Pro Ile Thr Gly Tyr Arg Ile Val
 805 810 815

Tyr Ser Pro Ser Val Glu Gly Ser Ser Thr Glu Leu Asn Leu Pro Glu
 820 825 830

Thr Ala Asn Ser Val Thr Leu Ser Asp Leu Gln Pro Gly Val Gln Tyr
 835 840 845

Asn Ile Thr Ile Tyr Ala Val Glu Glu Asn Gln Glu Ser Thr Pro Val
 850 855 860

Val Ile Gln Gln Glu Thr Thr Gly Thr Pro Arg Ser Asp Thr Val Pro
 865 870 875 880

Ser Pro Arg Asp Leu Gln Phe Val Glu Val Thr Asp Val Lys Val Thr
 885 890 895

Ile Met Trp Thr Pro Pro Glu Ser Ala Val Thr Gly Tyr Arg Val Asp
 900 905 910

Val Ile Pro Val Asn Leu Pro Gly Glu His Gly Gln Arg Leu Pro Ile
 915 920 925

Ser Arg Asn Thr Phe Ala Glu Val Thr Gly Leu Ser Pro Gly Val Thr
 930 935 940

Tyr Tyr Phe Lys Val Phe Ala Val Ser His Gly Arg Glu Ser Lys Pro
 945 950 955

945

950

955

960

Leu Thr Ala Gln Gln Thr Thr Lys Leu Asp Ala Pro Thr Asn Leu Gln
 965 970 975

Phe Val Asn Glu Thr Asp Ser Thr Val Leu Val Arg Trp Thr Pro Pro
 980 985 990

Arg Ala Gln Ile Thr Gly Tyr Arg Leu Thr Val Gly Leu Thr Arg Arg
 995 1000 1005

Gly Gln Pro Arg Gln Tyr Asn Val Gly Pro Ser Val Ser Lys Tyr
 1010 1015 1020

Pro Leu Arg Asn Leu Gln Pro Ala Ser Glu Tyr Thr Val Ser Leu
 1025 1030 1035

Val Ala Ile Lys Gly Asn Gln Glu Ser Pro Lys Ala Thr Gly Val
 1040 1045 1050

Phe Thr Thr Leu Gln Pro Gly Ser Ser Ile Pro Pro Tyr Asn Thr
 1055 1060 1065

Glu Val Thr Glu Thr Thr Ile Val Ile Thr Trp Thr Pro Ala Pro
 1070 1075 1080

Arg Ile Gly Phe Lys Leu Gly Val Arg Pro Ser Gln Gly Gly Glu
 1085 1090 1095

Ala Pro Arg Glu Val Thr Ser Asp Ser Gly Ser Ile Val Val Ser
 1100 1105 1110

Gly Leu Thr Pro Gly Val Glu Tyr Val Tyr Thr Ile Gln Val Leu
 1115 1120 1125

Arg Asp Gly Gln Glu Arg Asp Ala Pro Ile Val Asn Lys Val Val
 1130 1135 1140

Thr Pro Leu Ser Pro Pro Thr Asn Leu His Leu Glu Ala Asn Pro
 1145 1150 1155

Asp Thr Gly Val Leu Thr Val Ser Trp Glu Arg Ser Thr Thr Pro
 1160 1165 1170

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Asp	Ile	Thr	Gly	Tyr	Arg	Ile	Thr	Thr	Thr	Pro	Thr	Asn	Gly	Gln
1175						1180						1185		
Gln	Gly	Asn	Ser	Leu	Glu	Glu	Val	Val	His	Ala	Asp	Gln	Ser	Ser
1190						1195					1200			
Cys	Thr	Phe	Asp	Asn	Leu	Ser	Pro	Gly	Leu	Glu	Tyr	Asn	Val	Ser
1205						1210					1215			
Val	Tyr	Thr	Val	Lys	Asp	Asp	Lys	Glu	Ser	Val	Pro	Ile	Ser	Asp
1220						1225					1230			
Thr	Ile	Ile	Pro	Ala	Val	Pro	Pro	Pro	Thr	Asp	Leu	Arg	Phe	Thr
1235						1240					1245			
Asn	Ile	Gly	Pro	Asp	Thr	Met	Arg	Val	Thr	Trp	Ala	Pro	Pro	Pro
1250						1255					1260			
Ser	Ile	Asp	Leu	Thr	Asn	Phe	Leu	Val	Arg	Tyr	Ser	Pro	Val	Lys
1265						1270					1275			
Asn	Glu	Glu	Asp	Val	Ala	Glu	Leu	Ser	Ile	Ser	Pro	Ser	Asp	Asn
1280						1285					1290			
Ala	Val	Val	Leu	Thr	Asn	Leu	Leu	Pro	Gly	Thr	Glu	Tyr	Val	Val
1295						1300					1305			
Ser	Val	Ser	Ser	Val	Tyr	Glu	Gln	His	Glu	Ser	Thr	Pro	Leu	Arg
1310						1315					1320			
Gly	Arg	Gln	Lys	Thr	Gly	Leu	Asp	Ser	Pro	Thr	Gly	Ile	Asp	Phe
1325						1330					1335			
Ser	Asp	Ile	Thr	Ala	Asn	Ser	Phe	Thr	Val	His	Trp	Ile	Ala	Pro
1340						1345					1350			
Arg	Ala	Thr	Ile	Thr	Gly	Tyr	Arg	Ile	Arg	His	His	Pro	Glu	His
1355						1360					1365			
Phe	Ser	Gly	Arg	Pro	Arg	Glu	Asp	Arg	Val	Pro	His	Ser	Arg	Asn
1370						1375					1380			
Ser	Ile	Thr	Leu	Thr	Asn	Leu	Thr	Pro	Gly	Thr	Glu	Tyr	Val	Val
1385						1390					1395			

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Ser Ile Val Ala Leu Asn Gly Arg Glu Glu Ser Pro Leu Leu Ile
 1400 1405 1410
 Gly Gln Gln Ser Thr Val Ser Asp Val Pro Arg Asp Leu Glu Val
 1415 1420 1425
 Val Ala Ala Thr Pro Thr Ser Leu Leu Ile Ser Trp Asp Ala Pro
 1430 1435 1440
 Ala Val Thr Val Arg Tyr Tyr Arg Ile Thr Tyr Gly Glu Thr Gly
 1445 1450 1455
 Gly Asn Ser Pro Val Gln Glu Phe Thr Val Pro Gly Ser Lys Ser
 1460 1465 1470
 Thr Ala Thr Ile Ser Gly Leu Lys Pro Gly Val Asp Tyr Thr Ile
 1475 1480 1485
 Thr Val Tyr Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ser
 1490 1495 1500
 Lys Pro Ile Ser Ile Asn Tyr Arg Thr Glu Ile Asp Lys Pro Ser
 1505 1510 1515
 Gln Met Gln Val Thr Asp Val Gln Asp Asn Ser Ile Ser Val Lys
 1520 1525 1530
 Trp Leu Pro Ser Ser Ser Pro Val Thr Gly Tyr Arg Val Thr Thr
 1535 1540 1545
 Thr Pro Lys Asn Gly Pro Gly Pro Thr Lys Thr Lys Thr Ala Gly
 1550 1555 1560
 Pro Asp Gln Thr Glu Met Thr Ile Glu Gly Leu Gln Pro Thr Val
 1565 1570 1575
 Glu Tyr Val Val Ser Val Tyr Ala Gln Asn Pro Ser Gly Glu Ser
 1580 1585 1590
 Gln Pro Leu Val Gln Thr Ala Val Thr Asn Ile Asp Arg Pro Lys
 1595 1600 1605
 Gly Leu Ala Phe Thr Asp Val Asp Val Asp Ser Ile Lys Ile Ala
 1610 1615 1620

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Trp	Glu	Ser	Pro	Gln	Gly	Gln	Val	Ser	Arg	Tyr	Arg	Val	Thr	Tyr
1625						1630					1635			
Ser	Ser	Pro	Glu	Asp	Gly	Ile	His	Glu	Leu	Phe	Pro	Ala	Pro	Asp
1640						1645					1650			
Gly	Glu	Glu	Asp	Thr	Ala	Glu	Leu	Gln	Gly	Leu	Arg	Pro	Gly	Ser
1655						1660					1665			
Glu	Tyr	Thr	Val	Ser	Val	Val	Ala	Leu	His	Asp	Asp	Met	Glu	Ser
1670						1675					1680			
Gln	Pro	Leu	Ile	Gly	Thr	Gln	Ser	Thr	Ala	Ile	Pro	Ala	Pro	Thr
1685						1690					1695			
Asp	Leu	Lys	Phe	Thr	Gln	Val	Thr	Pro	Thr	Ser	Leu	Ser	Ala	Gln
1700						1705					1710			
Trp	Thr	Pro	Pro	Asn	Val	Gln	Leu	Thr	Gly	Tyr	Arg	Val	Arg	Val
1715						1720					1725			
Thr	Pro	Lys	Glu	Lys	Thr	Gly	Pro	Met	Lys	Glu	Ile	Asn	Leu	Ala
1730						1735					1740			
Pro	Asp	Ser	Ser	Ser	Val	Val	Val	Ser	Gly	Leu	Met	Val	Ala	Thr
1745						1750					1755			
Lys	Tyr	Glu	Val	Ser	Val	Tyr	Ala	Leu	Lys	Asp	Thr	Leu	Thr	Ser
1760						1765					1770			
Arg	Pro	Ala	Gln	Gly	Val	Val	Thr	Thr	Leu	Glu	Asn	Val	Ser	Pro
1775						1780					1785			
Pro	Arg	Arg	Ala	Arg	Val	Thr	Asp	Ala	Thr	Glu	Thr	Thr	Ile	Thr
1790						1795					1800			
Ile	Ser	Trp	Arg	Thr	Lys	Thr	Glu	Thr	Ile	Thr	Gly	Phe	Gln	Val
1805						1810					1815			
Asp	Ala	Val	Pro	Ala	Asn	Gly	Gln	Thr	Pro	Ile	Gln	Arg	Thr	Ile
1820						1825					1830			
Lys	Pro	Asp	Val	Arg	Ser	Tyr	Thr	Ile	Thr	Gly	Leu	Gln	Pro	Gly

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1835		1840		1845
Thr Asp 1850	Tyr Lys Ile Tyr	Leu 1855	Tyr Thr Leu Asn Asp 1860	Asn Ala Arg
Ser Ser 1865	Pro Val Val Ile	Asp 1870	Ala Ser Thr Ala Ile 1875	Asp Ala Pro
Ser Asn 1880	Leu Arg Phe Leu	Ala 1885	Thr Thr Pro Asn Ser 1890	Leu Leu Val
Ser Trp 1895	Gln Pro Pro Arg	Ala 1900	Arg Ile Thr Gly Tyr 1905	Ile Ile Lys
Tyr Glu 1910	Lys Pro Gly Ser	Pro 1915	Pro Arg Glu Val Val 1920	Pro Arg Pro
Arg Pro 1925	Gly Val Thr Glu	Ala 1930	Thr Ile Thr Gly Leu 1935	Glu Pro Gly
Thr Glu 1940	Tyr Thr Ile Tyr	Val 1945	Ile Ala Leu Lys Asn 1950	Asn Gln Lys
Ser Glu 1955	Pro Leu Ile Gly	Arg 1960	Lys Lys Thr Asp Glu 1965	Leu Pro Gln
Leu Val 1970	Thr Leu Pro His	Pro 1975	Asn Leu His Gly Pro 1980	Glu Ile Leu
Asp Val 1985	Pro Ser Thr Val	Gln 1990	Lys Thr Pro Phe Val 1995	Thr His Pro
Gly Tyr 2000	Asp Thr Gly Asn	Gly 2005	Ile Gln Leu Pro Gly 2010	Thr Ser Gly
Gln Gln 2015	Pro Ser Val Gly	Gln 2020	Gln Met Ile Phe Glu 2025	Glu His Gly
Phe Arg 2030	Arg Thr Thr Pro	Pro 2035	Thr Thr Ala Thr Pro 2040	Ile Arg His
Arg Pro 2045	Arg Pro Tyr Pro	Pro 2050	Asn Val Gly Gln Glu 2055	Ala Leu Ser

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Gln	Thr	Thr	Ile	Ser	Trp	Ala	Pro	Phe	Gln	Asp	Thr	Ser	Glu	Tyr
2060						2065					2070			
Ile	Ile	Ser	Cys	His	Pro	Val	Gly	Thr	Asp	Glu	Glu	Pro	Leu	Gln
2075						2080					2085			
Phe	Arg	Val	Pro	Gly	Thr	Ser	Thr	Ser	Ala	Thr	Leu	Thr	Gly	Leu
2090						2095					2100			
Thr	Arg	Gly	Ala	Thr	Tyr	Asn	Ile	Ile	Val	Glu	Ala	Leu	Lys	Asp
2105						2110					2115			
Gln	Gln	Arg	His	Lys	Val	Arg	Glu	Glu	Val	Val	Thr	Val	Gly	Asn
2120						2125					2130			
Ser	Val	Asn	Glu	Gly	Leu	Asn	Gln	Pro	Thr	Asp	Asp	Ser	Cys	Phe
2135						2140					2145			
Asp	Pro	Tyr	Thr	Val	Ser	His	Tyr	Ala	Val	Gly	Asp	Glu	Trp	Glu
2150						2155					2160			
Arg	Met	Ser	Glu	Ser	Gly	Phe	Lys	Leu	Leu	Cys	Gln	Cys	Leu	Gly
2165						2170					2175			
Phe	Gly	Ser	Gly	His	Phe	Arg	Cys	Asp	Ser	Ser	Arg	Trp	Cys	His
2180						2185					2190			
Asp	Asn	Gly	Val	Asn	Tyr	Lys	Ile	Gly	Glu	Lys	Trp	Asp	Arg	Gln
2195						2200					2205			
Gly	Glu	Asn	Gly	Gln	Met	Met	Ser	Cys	Thr	Cys	Leu	Gly	Asn	Gly
2210						2215					2220			
Lys	Gly	Glu	Phe	Lys	Cys	Asp	Pro	His	Glu	Ala	Thr	Cys	Tyr	Asp
2225						2230					2235			
Asp	Gly	Lys	Thr	Tyr	His	Val	Gly	Glu	Gln	Trp	Gln	Lys	Glu	Tyr
2240						2245					2250			
Leu	Gly	Ala	Ile	Cys	Ser	Cys	Thr	Cys	Phe	Gly	Gly	Gln	Arg	Gly
2255						2260					2265			
Trp	Arg	Cys	Asp	Asn	Cys	Arg	Arg	Pro	Gly	Gly	Glu	Pro	Ser	Pro
2270						2275					2280			

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Glu Gly Thr Thr Gly Gln Ser Tyr Asn Gln Tyr Ser Gln Arg Tyr
 2285 2290 2295

His Gln Arg Thr Asn Thr Asn Val Asn Cys Pro Ile Glu Cys Phe
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Met Pro Leu Asp Val Gln Ala Asp Arg Glu Asp Ser Arg Glu
 2315 2320 2325

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<212> DNA

<213> Homo Sapiens

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catcaaaggc ctgaagcctg gtgtggtata cgagggccag ctcacagca tccagcagta	1980
cggccaccaa gaagtgactc gctttgactt caccaccacc agcaccagca cacctgtgac	2040
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